7th Science / Hester

Adaptations Pre-Test

1. The father of evolution is - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a process by which organisms with traits most well-suited for survival live to reproduce and therefore pass on beneficial traits to their offspring. Organisms with traits detrimental to survival do not survive to reproduce, thereby reducing gene frequency for non- beneficial traits.

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ traits correspond in function, but are not evolved from

corresponding organs.

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ traits are evolved from the same organs, but over time, the function has changed.
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ adaptations are physical characteristics that help ensure an animal’s survival, and occur as a result of natural selection over many generations.
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ adaptations include an organism’s responses to its environment, and may be genetically inherited or acquired as a result of environmental factors.
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ adaptations generally occur within short time frames as an organism responds to specific environmental factors in an effort to maintain homeostasis.

8. Earth’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ can be traced back to

one-celled organisms that existed during Precambrian Time more than 500

million years ago, moving forward to modern plants and animals in the

current era.

1. Relationships between organisms over time may be graphically represented

with a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ tree.

1. How are animals classified?
2. Explain, in your own words, “Natural Selection.”

12. How do we know what animals in the past (before pics) looked like?